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AN - 1994-288240 [36]

XA - C1994-131385

XP - N1994-226996

TI - Liq developer for electrophotography where charge control agent is suitable to carrier liq contg silicone - comprises dispersion of toner contg colourant and resin to high insulating carrier liq, and colourant etc

DC - A89 G08 P84 S06

PA - (YAWH) NIPPON STEEL CHEM CO

NP - 1

NC - 1

PN - **JP06214431** A 19940805 DW1994-36 G03G-009/13 6p *

AP: 1993JP-0267217 19931026

PR - 1992JP-0311107 19921028

IC - G03G-009/13 G03G-009/12

AB - JP06214431 A

Developer is dispersion of the toner contg. colourant and the resin, to the high insulating carrier liq. Resin is the mixt. of the carrier liq soluble and carrier liq. insol. resins.

Colourant consists of kind(s) of the dye and pigment, and the charge control agent is organic cpd. contg divalent - tetravalent metal. Solid content (carrier liq.-insol resin and colourant) in the carrier liq. is 10-35 wt. %. Carrier liq.-insol resin consists of the resin particles contg. particle dia. 0.1 microns or less of 30 vol.% or more.

Colourant agent is one or ore pigment or dye particles, covered by the carrier liq.-insol. resin. Charge control agent is the carrier liq.-soluble organic cpd. contg. di-tetravalent metal. Developer is used in the single pass type development.

USE/ADVANTAGE - Charge control agent is suitable to the carrier liq. contg. silicone as the main component and has the good development characteristics and without air pollution.

In an example, Isoper E100 pts. wt. methacrylic acid-modified dimethyl silicone 20 pts.wt., vinyl acetate 80 pts. wt., AIBN 0.8 pts. wt. are polymerised for 3 hrs at 80 deg. C. (resin content: 50%). Carrier liq. (dimethyl silicone) 100 pts. wt. and the resin soln. 20 pts. wt. C black etc., 6 pts. wt., Ca abietate 2 pts. wt. are mixed to obtain the developer. (Dwg.0/0)

MC - CPI: A06-A00E4 A12-L05C2 A12-S09 G06-G06

EPI: S06-A04C2

UP - 1994-36